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April 8, 2010

Kenneth Thiessen, Certified Engineering Geologist
Oregon Dept. of Environmental Quality
NW Region Cleanup Program
2020 SW 4th Ave, Ste, 400, Portland, OR 97201
(503) 229-6015

RE: Second Stormwater Sampling Report
GS Roofing Products, 6350 NW Front Avenue
Portland, Oregon

Dear Mr. Thiessen:

Per the Stormwater Assessment Workplan (SWAWP) dated January 2009, the SWAWP Addendum and response dated April 2009, and final Oregon Dept. of Environmental Quality (DEQ) comments and approval dated May 21, 2009, Forensic Environmental Services, Inc. (FES), on behalf of CertainTeed Corporation (CertainTeed), has prepared this letter report summarizing stormwater sampling activities conducted at the GS Roofing Products, 6350 NW Front Avenue, Portland, Oregon on February 23, 2010.

This sampling report, which was prepared and submitted within 30 days of receipt of the stormwater sampling laboratory data package (March 10, 2010), includes:

- Introduction;
- Discussion of DEQ correspondence dated February 16, 2010;
- A review of the February 23, 2010 sampling activities and any deviations from the sampling plan;
- Copies of field documentation (see Appendix A);
- Copies of the laboratory report and chain-of-custody form (see Appendix A);
- Data summaries in paper and electronic format (see Table 2, CD enclosed); and
- A discussion of the compounds detected, any compounds detected above their respective SLV, and the magnitude of the exceedances.

Introduction

Catch basin and stormwater sampling locations, and the associated analytical suites were finalized in the January 2009 SWAWP and the May 2009 DEQ approval letter. Following receipt of the DEQ SWAWP approval letter dated May 21, 2009, CertainTeed made preparations for sample collection including contracting TestAmerica, Inc. of Portland (TestAmerica) as the field consultant.

Catch basin sediment samples were collected by TestAmerica in July 2009, and the results were discussed in the Catch Basin Sediment Sampling Report submitted by FES on September 24, 2009. The initial stormwater sampling even was completed on October 21, 2009, and the results were discussed in the Initial Stormwater Sampling Report submitted by FES on December 3, 2009. A second stormwater sampling event was completed on November 7, 2009; however, the results were qualified because the storm did not meet the storm event criteria (see next page). Stormwater sampling locations (Outfall A & Outfall B) are depicted on Figure 1, and the analytical suite proposed for each sampling location is summarized in Table 1.

Discussion of DEQ Correspondence dated February 16, 2010

The December 2009 Initial Stormwater Sampling Report noted that contingent parameters polychlorinated biphenyls (PCBs), organochlorine pesticides, and herbicides were not detected in the October 21, 2009 stormwater samples, and therefore, per the DEQ-approved SWAWP, samples would not be collected for these contingent analytes during subsequent stormwater sampling events. However, correspondence from DEQ dated February 16, 2010 (and received on February 19, 2010) requested that PCBs and organochlorine pesticides be analyzed during subsequent stormwater sampling events. Unfortunately, TestAmerica had already collected the February stormwater samples before these changes were communicated to field sampling personnel. Per the DEQ request, stormwater samples will be collected for analysis of PCBs and organochlorine pesticides during the next stormwater sampling event.

The February 16, 2010 DEQ correspondence requested that CertainTeed collect and analyze sediment samples from catch basin CB1-5 for PCBs and organochlorine pesticides, and if present, collect and analyze sediment samples from catch basin SP1-B for the full analysis suite (sediments were not present at this location in July 2009). The requested sediment samples will be collected during the Second Quarter of 2010.

The February 16, 2010 DEQ correspondence also requested that CertainTeed collect sediment and stormwater samples from a storage area that CertainTeed was leasing on the adjacent Arkema (Atofina) property. As discussed with DEQ, CertainTeed has terminated its lease arrangement with Arkema and removed all materials formerly stored in the leased area. Arkema has agreed to complete the requested sampling activities, which they will independently report to the DEQ.

DEQ also requested that, per the follow up letter to the City of Portland inspection on October 27, 2009, CertainTeed determine if the lateral pipe entering catch basin CB1-6 extends onto the Arkema property. CertainTeed inspected the lateral pipe during a March rainfall event and determined the pipe is not an active water drain from the Arkema property (or elsewhere). However, as a precaution the lateral pipe will be sealed at catch basin CB1-6 to ensure the pipe cannot serve as a conduit for water from the Arkema property.

Storm Event Criteria

Storm event criteria are as follows: 1) antecedent dry period of at least 24 hours (less than 0.1 inch); 2) minimum rainfall of at least 0.2 inches; and 3) duration of at least 3 hours. Weather conditions at the time of sampling on February 23, 2010 were cloudy with continuous rain, calm winds, and a temperature of approximately 46^{o}F. Based on precipitation data obtained from the nearest City of Portland HYDRA Station (No. 193, Astor Elementary School, 5601 N. Yale St., located approximately 1.0 mile northeast of the site), light rainfall started between 10:00 am and 11:00 am PST on February 23, 2010. The last significant rainfall event in the area (i.e., more than 0.1 inches) had ended seven days earlier on February 16, 2010.

No rainfall was recorded during the previous 24 hours, total rainfall was 0.44 inches, and continuous precipitation lasted approximately 17 hours, so the February 23, 2010 rainfall meets the storm event criteria. A temporal rainfall distribution graph, as outlined in the Oregon Department of Environmental Quality (DEQ) *Guidance for Evaluating the Stormwater Pathway at Cleanup Sites* public review draft dated May 1, 2008, is provided as Figure 2.

TestAmerica mobilized to the GS Roofing site on February 23, 2010, and stormwater sampling was initiated at approximately 13:20 pm Pacific Standard Time (PST). Stormwater discharge did not begin until approximately 13:15 pm; therefore, this event constitutes a “first-flush” sampling event (i.e., samples were collected within 30 minutes of the start of stormwater discharge).

Sampling Methods and Documentation

Stormwater samples were collected directly from each outfall sampling location into laboratory supplied bottleware. Based on the available information provided by TestAmerica, sampling methods generally followed the methodology identified in the Washington Department of Ecology 2005 document *How to Do Stormwater Sampling: A guide for industrial facilities*. Field sampling documentation provided by TestAmerica is included with the laboratory report (see Appendix A).

Analytical Suite

The analytical suite for each stormwater sample is listed in Table 1. Each stormwater sample was analyzed for total suspended solids (TSS) via Standard Method 2540D, total organic carbon (TOC) via Standard Method 5310C, volatile organic compounds (VOCs) via EPA Method 8260B, selected target analyte list (TAL) metals via EPA Methods 200.7/200.8/7470A, total petroleum hydrocarbons-diesel range organics (TPH-DRO), TPH-heavy oil range hydrocarbons (TPH-HORH), and TPH-gasoline range organics (TPH-GRH) via Methods NWTPH-Dx & NWTPH-Gx, semi-volatile organic compounds (SVOCs) via EPA Method 8270C, and polyaromatic hydrocarbons (PAHs) and phthalates via EPA Method 8270M-SIM.

The selected analytical laboratory, TestAmerica, attempted to achieve the screening level values (SLVs) listed in Table 3-1 of the Portland Harbor Joint Source Control Strategy (JSCS) dated December 2005 to the extent practicable. All analyses met the laboratory Method Reporting Limit (MRL) value listed in Table 3-1 of the JSCS December 2005 document; however, several MRLs exceeded the corresponding SLV.

Deviations from the Approved SWAWP

The following deviation from the approved SWAWP were noted: 1) some specified Quality Assurance and Quality Control (QA/QC) samples were not collected on February 23, 2010 (see discussion under "Data Quality Assurance and Quality Control"). No other deviations from the approved SWAWP were noted.

Sampling Results and Discussion

Stormwater sampling results are summarized in Table 2. A copy of the laboratory analytical data report is provided as Appendix A.

No VOCs were detected in either of the February 23, 2010 samples via EPA Method 8260B (see Table 2). Samples were not collected for VOC analysis during the initial stormwater sampling event in October 2009. As noted in the December 2009 stormwater sampling report, and approved in the February 2010 DEQ correspondence, if VOCs are not detected close to or above the SLVs during the two remaining stormwater sampling events, no additional sampling for VOCs will be performed.

No SVOCs were detected via EPA Method 8270C in the sample collected on February 23, 2010 from Outfall B (see Table 2), but 3,4-methylphenol was detected in the stormwater sample from Outfall A at a concentration of 5.69 micrograms per liter (µg/L), which is well below the corresponding SLV (180 µg/L). One phthalate (dimethyl-phthalate; concentration 0.956 µg/L) and two PAHs (fluoranthene and phenanthrene; both concentrations 0.096 µg/L) were detected via EPA Method 8270M-SIM in the February 2010 stormwater sample from Outfall A. The detected phthalate and PAH concentrations are below the corresponding SLVs (3 µg/L and 0.2 µg/L, respectively).

One phthalate (bis[2-ethylhexyl]phthalate; concentration 1.01 µg/L) and four PAHs (chrysene, fluoranthene, phenanthrene, and pyrene) were detected in the February 2010 stormwater sample from Outfall B. The detected phthalate concentration was below the corresponding SLV (2.2 µg/L), but the PAH concentrations exceeded their corresponding SLVs. The presence of PAHs is often associated with run-off from asphalt surfaces, which are present in the vicinity of Outfall B (i.e., Drainage Basin 001).

TPH-GRH was not detected in either of the February 2010 stormwater samples, but TPH-DRO and TPH-HORH were detected in the Outfall A sample at concentrations of 0.764 milligrams per liter (mg/L) and 0.960 mg/L, respectively, and in the Outfall B sample at concentrations of 1.04 mg/L and 1.51 mg/L, respectively. The presence of TPH-HORN and TPH-DRO in the stormwater samples is attributed to: 1) parking lot run-off; and/or 2) ongoing industrial activities (asphalt shingle manufacturing).

Of the 13 TAL metal analytes, nine were detected in the February 2010 stormwater samples from both Outfall A and Outfall B (see Table 2). Detected metal concentrations were generally higher in the stormwater sample from Outfall B, but concentrations of copper and zinc were slightly higher in the Outfall A sample. Detected metal concentrations were generally higher in February 2010 (first-flush event) as compared with the results from the October 2009 sampling event.

Six metals exceeded their respective SLVs in both stormwater samples (see Table 2): aluminum (maximum concentration 2,560 µg/L), arsenic (maximum concentration 1.26 µg/L), copper (maximum concentration 76.2 µg/L), lead (maximum concentration 11.8 µg/L), manganese (maximum concentration 205 µg/L), and zinc (maximum concentration 167 µg/L).

There are no identified on-site sources for the aluminum, arsenic, lead, and manganese detected in the samples (however, trace amounts of aluminum are present in the "Green Diamond" sand used at the facility). Copper and zinc are present in raw materials used at the GS Roofing Site.

The two stormwater samples were also analyzed for TSS and TOC. Results are presented in Table 2. The TSS concentration was 60 mg/L in both samples collected during February 2010 (versus concentrations ranging from 6.86 mg/L to 10.0 mg/L in October 2009), and TOC ranged from 14.5 mg/L (Outfall B) to 19.8 mg/L (Outfall A). The stormwater pH (field measurement) was 7.27 at Outfall A and 6.99 at Outfall B.

Data Quality Assurance and Quality Control (QA/QC)

QA/QC measures included the collection of field duplicate samples, VOC matrix spike/matrix spike duplicate (MS/MSD) samples, and trip and equipment blanks. The only analyte detected in the VOC trip blank associated with the February 23, 2010 stormwater samples was chloroform at a concentration of 3.55 µg/L. Equipment blanks were not prepared because the February 2010 stormwater samples were collected directly from the outfalls into laboratory bottleware.

Although the laboratory ran internal duplicate and VOC MS/MSD samples, field duplicate samples were not collected by TestAmerica on February 23, 2010. Field sampling procedures were reviewed with TestAmerica. Field duplicate samples and VOC MS/MSD samples will be collected during subsequent sampling events.

Data validation was performed in accordance with USEPA procedures and the site-specific Quality Assurance Project Plan (QAPP). The Quality Control Summary for the laboratory analytical data package was reviewed.

Several nonconformances were noted including: 1) the MS for benzene and the MS/MSD for 1,1-dichloroethene were below acceptance limits, but the MSD for benzene and the laboratory control spike (LCS) and LCS duplicate recoveries for both analytes were within acceptance limits, and neither VOC analyte was detected; 2) the relative percent difference (RPD) for the TOC duplicate exceeded the acceptance limit; 3) the

reporting limits for TPH-Gx, VOCs, and acenaphthalene (via EPA 8270M-SIM) were raised due to sample matrix effects; and 4) the TOC samples were received in inappropriate sample containers. The QA/QC results do not indicate any major qualifications or rejections of any of the reported data.

Future Sampling Events and Reporting

Per the DEQ-approved SWAWP, subsequent interim stormwater sampling reports will be submitted to the DEQ on at least a quarterly basis. Another stormwater sampling event is currently scheduled for April 2010, and supplemental catch basin sediment sampling is also scheduled for April 2010. The next interim report, which will discuss stormwater and catch basin sediment sampling events completed in April and May 2010, will be submitted to DEQ no later than June 30, 2010.

Based on the current sampling schedule, it is anticipated that the four stormwater sampling events will not be completed until Second or Third Quarter 2010. A comprehensive report, which will include a data summary and evaluation, a summary of any recommended stormwater source control measures and/or best management practices (BMPs), and a proposed Performance Monitoring Workplan, will be submitted to the DEQ within 60 days of receipt of the final stormwater sampling laboratory data package.

Per your request, one bound, one unbound, and one electronic copy (CD includes data summary table in Excel format) of this report are enclosed. If you have any questions or comments on the above information, please feel free to contact me at (610) 594-3940.

Sincerely yours,

FORENSIC ENVIRONMENTAL SERVICES, INC.

Robert W. Zei, Ph.D., RG #G2076
Sr. Project Manager

cc: Anthony Ordway, CertainTeed
Matthew Prue, CertainTeed
Lauren Alterman, Esq., Saint-Gobain Corporation

TABLES

Table 1
Sample Summary Matrix - February 2010 Stormwater Sampling Event
Stormwater Assessment Program (SAP)
GS Roofing Products Site
Portland, Oregon

Matrix : Stormwater

Parameter	Analytical Method	Sample Number and Locations	Sample Volumes, Container(s), and Preservative	Analysis Holding Time
Total Suspended Solids (TSS)	SM 2540D	Two SPs: Outfall A Outfall B	250 mL 250 mL poly or glass Cool to 4°C	7 days
Total Organic Carbon (TOC)	EPA 9060	Two SPs: Outfall A Outfall B	250 mL 250 mL amber glass H_3PO_4 to pH <2, Cool to 4°C	28 days
Target Analyte List (TAL) Metals	EPA 6010B/6020/ 7470	Two SPs: Outfall A Outfall B	250 mL 250 mL poly HNO_3 to pH <2, Cool to 4°C	6 months
NWTPH Dx, HORH	NWTPH Dx	Two SPs: Outfall A Outfall B	1 L 1 L amber glass HCl to pH <2, Cool to 4°C	14 days

SP = sampling point; Dx = diesel; HORH = heavy oil range hydrocarbons; L = liter; mL = milliliters.

Table 1
Sample Summary Matrix - February 2010 Stormwater Sampling Event
Stormwater Assessment Program (SAP)
GS Roofing Products Site
Portland, Oregon

Matrix : Stormwater

Parameter	Analytical Method	Sample Number and Locations	Sample Volumes, Container(s), and Preservative	Analysis Holding Time
NWTPH Gx	NWTPH Gx	Two SPs: Outfall A Outfall B	3 x 40 mL glass vials w/teflon-lined cap (no headspace) HCl to pH <2, Cool to 4°C	14 days
Volatile Organic Compounds (VOCs)	EPA 8260B	Two SPs: Outfall A Outfall B	3 x 40 mL glass vials w/teflon-lined cap (no headspace) HCl to pH <2, Cool to 4°C	14 days
Semi-Volatile Organic Compounds (SVOCs)	EPA 8270C	Two SPs: Outfall A Outfall B	1 L 1 L amber glass Cool to 4°C	7 days
PAHs & Phthalates	EPA 8270M-SIM	Two SPs: Outfall A Outfall B	1 L 1 L amber glass Cool to 4°C	7 days

SP = sampling point; Gx = gasoline; L = liter; mL = milliliters.

Table 2
Stormwater Sampling Results - February 23, 2010
GS Roofing Products Site
Portland, Oregon

	SLV (DEQ 2008) (µg/L)	Laboratory MDL (µg/L)	Laboratory MRL (µg/L)	Outfall A (µg/L)	Outfall B (µg/L)	Trip Blank (µg/L)
Total Suspended Solids (TSS) via SM 2540D						
Total Suspended Solids (TSS)	--	--	10000	**60.0**	**60.0**	**-**
TOC via EPA Method 9060						
Total Organic Carbon	--	--	1000	**19.8**	**14.5**	**-**
pH via EPA Method 150.1						
pH (standard units)	--	--	--	**7.27**	**6.99**	**-**
Metals via EPA Method 6010B/6020/7470						
Aluminum	50	--	100	**1,530**	**2,560**	-
Antimony	6	--	1.00	**1.16**	**1.24**	-
Arsenic	0.045	--	1.00	**1.18**	**1.26**	-
Cadmium	0.094	--	1.00	<1.00	<1.00	-
Chromium, total	100	--	2.00	**9.85**	**15.3**	-
Copper	2.7	--	2.00	**76.2**	**44.0**	-
Lead	0.54	--	1.00	**11.8**	**7.40**	-
Manganese	50	--	2.00	**127**	**205**	-
Mercury	0.77	--	0.200	<0.200	<0.200	-
Nickel	16	--	2.00	**4.64**	**5.24**	-
Selenium	5	--	1.00	<1.00	<1.00	-
Silver	0.12	--	1.00	<1.00	<1.00	-
Zinc	36	--	10.0	**167**	**157**	**-**
TPH via NWTPH-Dx & NWTPH-Gx						
TPH Diesel	--	--	236/238	**764**	**1,040**	-
TPH-Gasoline	--	--	160	<160	<160	-
TPH Heavy Oil	--		472/476	**960**	**1,510**	**-**
Volatile Organic Compounds via EPA Method 8260B						
Acetone	1500	--	50.0	<50.0	<50.0	<25.0
Benzene	1.2	--	2.00	<2.00	<2.00	<1.00
Bromochloromethane	--	--	2.00	<2.00	<2.00	<1.00
Bromodichloromethane	1.1	--	2.00	<2.00	<2.00	<1.00
Bromoform	8.5	--	2.00	<2.00	<2.00	<1.00
Bromomethane	8.7	--	10.00	<10.0	<10.0	<5.00
2- Butanone (MEK)	7,100	--	20.0	<20.0	<20.0	<10.0
Carbon Disulfide	0.92	--	20.0	<20.0	<20.0	<10.0
Carbon Tetrachloride	0.51	--	2.00	<2.00	<2.00	<1.00
Chlorobenzene	50	--	2.00	<2.00	<2.00	<1.00
Chlorodibromomethane	0.79	--	2.00	<2.00	<2.00	<1.00
Chloroethane	23	--	2.00	<2.00	<2.00	<1.00

Table 2
Stormwater Sampling Results - February 23, 2010
GS Roofing Products Site
Portland, Oregon

	SLV (DEQ 2008) (µg/L)	Laboratory MDL (µg/L)	Laboratory MRL (µg/L)	Outfall A (µg/L)	Outfall B (µg/L)	Trip Blank (µg/L)
Volatile Organic Compounds via EPA Method 8260B (cont.)						
Chloroform	0.17	--	2.00	<2.00	<2.00	**3.55**
Chloromethane	2.1	--	10.0	<10.0	<10.0	<5.00
1,2- Dibromoethane (EDB)	0.033	--	2.00	<2.00	<2.00	<1.00
1,1- Dichloroethane	47	--	2.00	<2.00	<2.00	<1.00
1,2- Dichloroethane (EDC)	0.73	--	2.00	<2.00	<2.00	<1.00
cis-1,2-Dichloroethene	61	--	2.00	<2.00	<2.00	<1.00
trans-1,2-Dichloroethene	100	--	2.00	<2.00	<2.00	<1.00
1,2- Dichloropropane	0.97	--	2.00	<2.00	<2.00	<1.00
cis-1,3-Dichloropropene	0.055	--	2.00	<2.00	<2.00	<1.00
trans-1,3-Dichloropropene	0.055	--	2.00	<2.00	<2.00	<1.00
Dibromomethane	61	--	2.00	<2.00	<2.00	<1.00
Dichlorodifluoromethane	390	--	10.0	<10.0	<10.0	<5.00
Ethylbenzene	7.3	--	2.00	<2.00	<2.00	<1.00
2- Hexanone	99	--	20.0	<20.0	<20.0	<10.0
Isopropylbenzene	660	--	4.00	<4.00	<4.00	<2.00
Methylene chloride	8.9	--	10.0	<10.0	<10.0	<5.00
Methyl tert-butyl ether	37	--	2.00	<2.00	<2.00	<1.00
4- Methyl-2-Pentanone (MIBK)	170	--	10.0	<5.00	<5.00	<5.00
Styrene	100	--	2.00	<2.00	<2.00	<1.00
1,1,1,2- Tetrachloroethane	2.5	--	2.00	<2.00	<2.00	<1.00
1,1,2,2- Tetrachloroethane	0.33	--	2.00	<2.00	<2.00	<1.00
Tetrachloroethene (PCE)	0.12	--	2.00	<2.00	<2.00	<1.00
Toluene	9.8	--	2.00	<2.00	<2.00	<1.00
1,1,1- Trichloroethane (TCA)	11	--	2.00	<2.00	<2.00	<1.00
1,1,2- Trichloroethane	1.2	--	2.00	<2.00	<2.00	<1.00
Trichloroethene (TCE)	0.17	--	2.00	<2.00	<2.00	<1.00
Trichlorofluoromethane	1,300	--	2.00	<2.00	<2.00	<1.00
1,2,3- Trichloropropane	0.0095	--	2.00	<2.00	<2.00	<1.00
Vinyl Chloride	0.015	--	2.00	<2.00	<2.00	<1.00
m,p-Xylene	1.8	--	4.00	<4.00	<4.00	<1.00
o-Xylene	13	--	2.00	<2.00	<2.00	<2.00
Xylenes (total)	200	--	6.00	<6.00	<6.00	<3.00

Table 2
Stormwater Sampling Results - February 23, 2010
GS Roofing Products Site
Portland, Oregon

	SLV (DEQ 2008) (µg/L)	Laboratory MDL (µg/L)	Laboratory MRL (µg/L)	Outfall A (µg/L)	Outfall B (µg/L)	Trip Blank (µg/L)
Semi-Volatile Organic Compounds via EPA Method 8270C						
Oxygen-Containing Compounds						
Benzoic Acid	42	--	47.6	<47.6	<47.6	-
Benzyl Alcohol	8.6	--	9.52	<9.52	<9.52	-
Dibenzofuran	3.7	--	4.76	<4.76	<4.76	-
Isophorone	71	--	4.76	<4.76	<4.76	-
Halogenated Compounds						
1,2,4-Trichlorobenzene	8.2	--	4.76	<4.76	<4.76	-
1,2-Dichlorobenzene	49	--	4.76	<4.76	<4.76	-
1,3-Dichlorobenzene	14	--	4.76	<4.76	<4.76	-
1,4-Dichlorobenzene	2.8	--	4.76	<4.76	<4.76	-
2-Chloronaphthalene	490	--	4.76	<4.76	<4.76	-
3,3'-Dichlorobenzidine	0.028	--	4.76	<4.76	<4.76	-
4-Bromophenyl-phenyl ether	--	--	4.76	<4.76	<4.76	-
4-Chloroaniline	150	--	19.0	<19.0	<19.0	-
4-Chlorophenyl-phenyl ether	0.06	--	4.76	<4.76	<4.76	-
Bis-(2-chloroethoxy) methane	--	--	9.52	<9.52	<9.52	-
Bis-(2-chloroethyl) ether	0.06	--	4.76	<4.76	<4.76	-
Hexachlorobenzene	0.00029	--	4.76	<4.76	<4.76	-
Hexachlorobutadiene	0.86	--	9.52	<9.52	<9.52	-
Hexachlorocyclopentadiene	5.2	--	9.52	<9.52	<9.52	-
Hexachloroethane	3.3	--	9.52	<9.52	<9.52	-
Organonitrogen Compounds						
2,4-Dinitrotoluene	3.4	--	4.76	<4.76	<4.76	-
2,6-Dinitrotoluene	37	--	4.76	<4.76	<4.76	-
2-Nitroaniline	110.0	--	4.76	<4.76	<4.76	-
3-Nitroaniline	3.2	--	9.52	<9.52	<9.52	-
4-Nitroaniline	3.2	--	9.52	<9.52	<9.52	-
Nitrobenzene	3.4	--	4.76	<4.76	<4.76	-
N-Nitroso-di-n-propylamine	0.0096	--	9.52	<9.52	<9.52	-
N-Nitrosodiphenylamine	6	--	4.76	<4.76	<4.76	-
Phenols and Substituted Phenols						
2,4,5-Trichlorophenol	3600	--	4.76	<4.76	<4.76	-
2,4,6-Trichlorophenol	2.4	--	4.76	<4.76	<4.76	-
2,4-Dichlorophenol	110	--	4.76	<4.76	<4.76	-
2,4-Dimethylphenol	730	--	9.52	<9.52	<9.52	-
2,4-Dinitrophenol	73	--	23.8	<23.8	<23.8	-
2-Chlorophenol	30	--	4.76	<4.76	<4.76	-

Table 2
Stormwater Sampling Results - February 23, 2010
GS Roofing Products Site
Portland, Oregon

	SLV (DEQ 2008) (µg/L)	Laboratory MDL (µg/L)	Laboratory MRL (µg/L)	Outfall A (µg/L)	Outfall B (µg/L)	Trip Blank (µg/L)
Semi-Volatile Organic Compounds via EPA Method 8270C (cont.)						
Phenols and Substituted Phenols (cont.)						
2-Methylphenol (o-Cresol)	13	--	9.52	<9.52	<9.52	-
2-Nitrophenol	150	--	4.76	<4.76	<4.76	-
4-Chloro-3-methylphenol	--	--	4.76	<4.76	<4.76	-
3,4-Methylphenol	180	--	4.76	**5.69**	<5.69	-
4-Nitrophenol	150	--	23.8	<23.8	<23.8	-
Methyl-4,6-Dinitrophenol 2-	150	--	9.52	<9.52	<9.52	-
Pentachlorophenol	0.56	--	9.52	<9.52	<9.52	-
Phenol	2560	--	4.76	<4.76	<4.76	-
Phthalate Esters (but see 8270C-SIM analysis next page)						
bis(2-Ethylhexyl)phthalate	2.2	--	9.52	<9.52	<9.52	-
Butylbenzylphthalate	3	--	4.76	<4.76	<4.76	-
Diethylphthalate	3	--	4.76	<4.76	<4.76	-
Dimethylphthalate	3	--	4.76	<4.76	<4.76	-
Di-n-butylphthalate	3	--	4.76	<4.76	<4.76	-
Di-n-octylphthalate	3	--	4.76	<4.76	<4.76	-
Polycyclic Aromatic Hydrocarbons (PAHs) - (but see 8270C-SIM analysis next page)						
Acenaphthene	0.2	--	4.76	<4.76	<4.76	-
Acenaphthylene	0.2	--	4.76	<4.76	<4.76	-
Anthracene	0.2	--	4.76	<4.76	<4.76	-
Benzo(a)anthracene	0.018	--	4.76	<4.76	<4.76	-
Benzo(a)pyrene	0.018	--	4.76	<4.76	<4.76	-
Benzo(b)fluoranthene	0.018	--	4.76	<4.76	<4.76	-
Benzo(g,h,i)perylene	0.2	--	4.76	<4.76	<4.76	-
Benzo(k)fluoranthene	0.018	--	4.76	<4.76	<4.76	-
Chrysene	0.018	--	4.76	<4.76	<4.76	-
Dibenzo(a,h)anthracene	0.018	--	4.76	<4.76	<4.76	-
Fluoranthene	0.2	--	4.76	<4.76	<4.76	-
Fluorene	0.2	--	4.76	<4.76	<4.76	-
Indeno(1,2,3-cd)pyrene	0.018	--	4.76	<4.76	<4.76	-
2-Methylnaphthalene	0.2	--	4.76	<4.76	<4.76	-
Naphthalene	0.2	--	4.76	<4.76	<4.76	-
Phenanthrene	0.2	--	4.76	<4.76	<4.76	-
Pyrene	0.2	--	4.76	<4.76	<4.76	-

Table 2
Stormwater Sampling Results - February 23, 2010
GS Roofing Products Site
Portland, Oregon

	SLV (DEQ 2008) (µg/L)	Laboratory MDL (µg/L)	Laboratory MRL (µg/L)	Outfall A (µg/L)	Outfall B (µg/L)	Trip Blank (µg/L)
Phthalates/PAHs via EPA Method 8270M-SIM						
Phthalate Esters						
bis(2-Ethylhexyl)phthalate	2.2	--	0.952	<0.952	**1.01**	-
Butylbenzylphthalate	3	--	0.952	<0.952	<0.952	-
Diethylphthalate	3	--	0.952	<0.952	<0.952	-
Dimethylphthalate	3	--	0.952	**0.956**	<0.956	-
Di-n-butylphthalate	3	--	0.952	<0.952	<0.952	-
Di-n-octylphthalate	3	--	0.952	<0.952	<0.952	-
PAHs						
Acenaphthene	0.2	--	0.0952	<0.0952	<0.0952	-
Acenaphthylene	0.2	--	0.143/0.286	<0.143	<0.286	-
Anthracene	0.2	--	0.0952	<0.0952	<0.0952	-
Benzo(a)anthracene	0.018	--	0.0952	<0.0952	<0.0952	-
Benzo(a)pyrene	0.018	--	0.0952	<0.0952	<0.0952	-
Benzo(b)fluoranthene	0.018	--	0.0952	<0.0952	<0.0952	-
Benzo(g,h,i)perylene	0.2	--	0.0952	<0.0952	<0.0952	-
Benzo(k)fluoranthene	0.018	--	0.0952	<0.0952	<0.0952	-
Chrysene	0.018	--	0.0952	<0.0952	**0.141**	-
Dibenzo(a,h)anthracene	0.018	--	0.190	<0.190	<0.190	-
Fluoranthene	0.2	--	0.0952	**0.096**	**0.635**	-
Fluorene	0.2	--	0.0952	<0.0952	<0.0952	-
Indeno(1,2,3-cd)pyrene	0.018	--	0.0952	<0.0952	<0.0952	-
Naphthalene	0.2	--	0.0952	<0.0952	<0.0952	-
Phenanthrene	0.2	--	0.0952	**0.096**	**0.241**	-
Pyrene	0.2	--	0.0952	<0.0952	**0.515**	**-**

Detected analytes in bold.

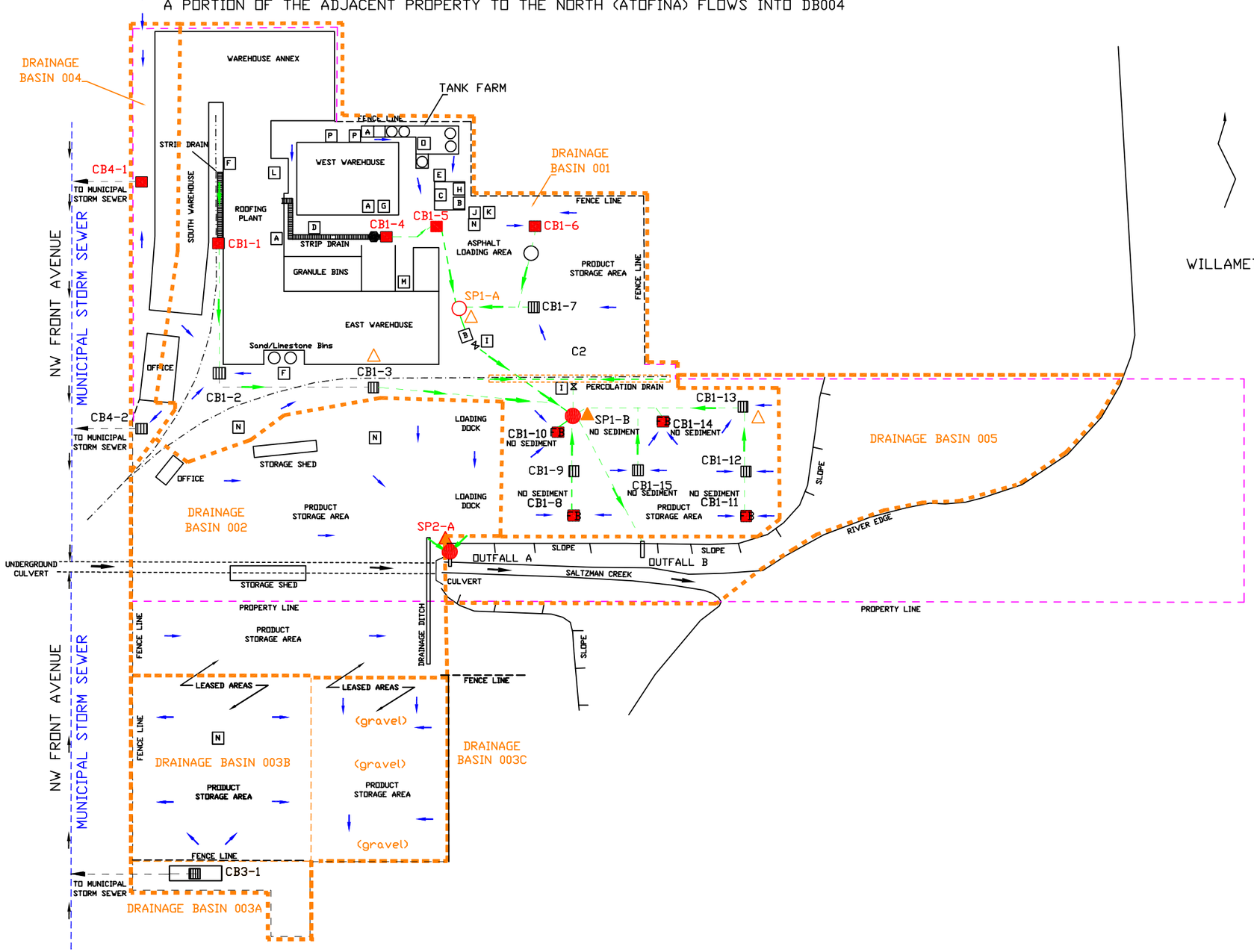
SLV = screening level value (see Table 3-1 Portland Harbor Joint Source Control Strategy (JSCS) dated December 2005; "--" = value not available; µg/L = micrograms per liter; MDL = laboratory method detection limit; MRL = laboratory method reporting limit; ND = not detected above the MDL.

The VOC analyte MRLs for the trip blank sample were one-half the VOC MRLs for the outfall samples.

Any analytes listed in the laboratory report (see Appendix A) that are not tabulated above were not detected above their respective MRL.

FIGURES

NOTE: DURING RECENT FIELD RECONNAISSANCE, IT WAS OBSERVED THAT SURFACE WATER FROM A PORTION OF THE ADJACENT PROPERTY TO THE NORTH (ATOFINA) FLOWS INTO DB004



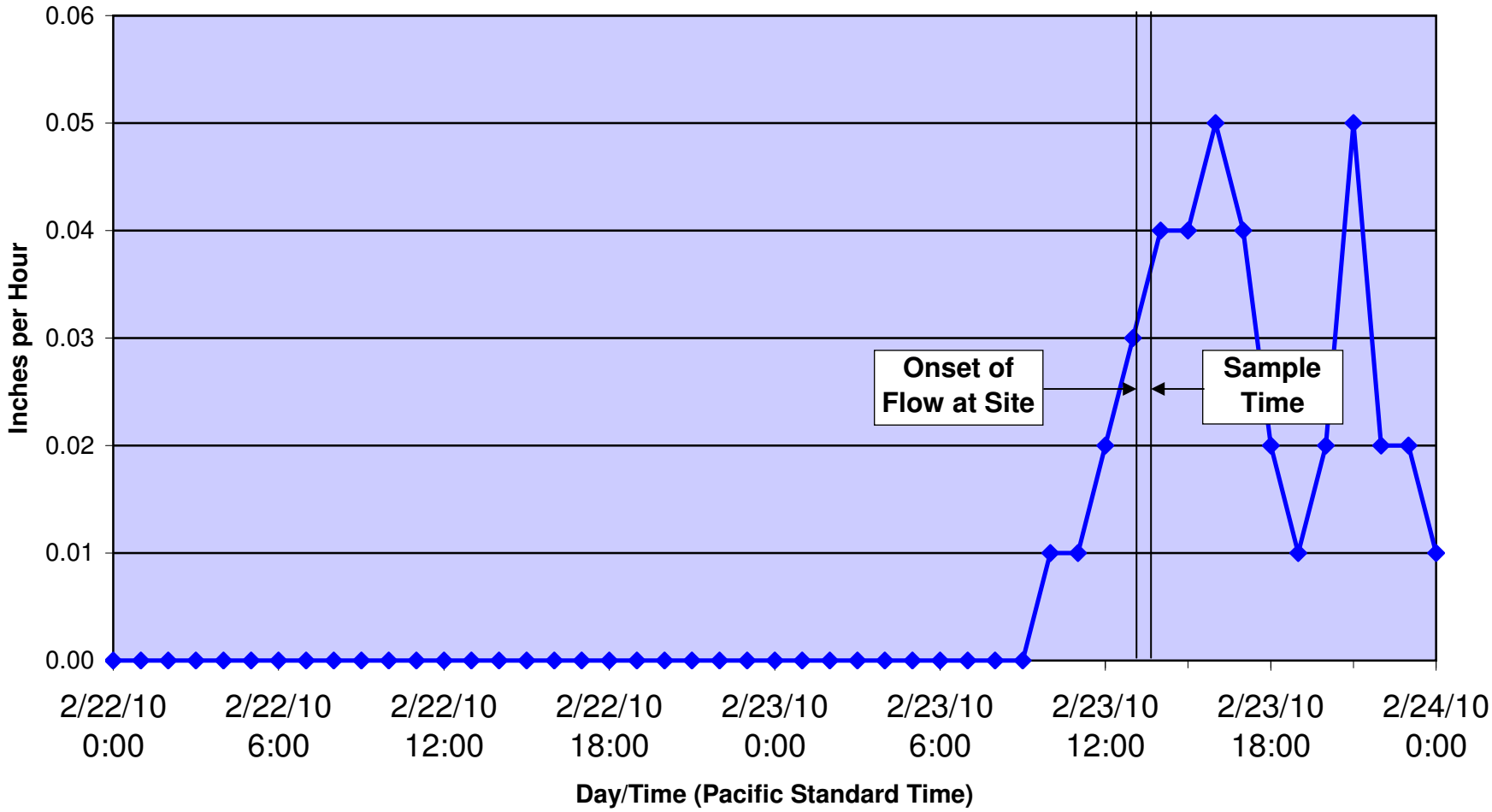
LEGEND

- PROPERTY LINE
- FENCE LINE (= PROPERTY LINE WHERE PRESENT)
- RAILROAD TRACKS
- CATCH BASIN
- CATCH BASIN SEDIMENT SAMPLING LOCATION
- FB 'FILTER BAG' SEDIMENT SAMPLE
- STORMWATER/NPDES SAMPLING POINT
- CONTINGENT STORMWATER SAMPLING POINT
- STORM SEWER OIL/WATER SEPARATOR
- SHUT-OFF VALVE
- WEIR
- STORM SEWER LINE
- STORMWATER FLOW DIRECTION
- SURFACE DRAINAGE DIRECTION
- MUNICIPAL SEWER FLOW DIRECTION
- DRAINAGE BASIN BOUNDARY
- DRAINAGE SUB-BASIN BOUNDARY

FORENSIC ENVIRONMENTAL SERVICES, INC.	FIGURE 1
STORMWATER SAMPLING LOCATIONS GS ROOFING PRODUCTS SITE PORTLAND, OREGON	
0 — 120 SCALE IN FEET	DRAWN BY: APPROVED BY:

f1swSAMP.DWG

Figure 2
February 22-23, 2010 Hydrograph
Sta. 129 (Astor Elementary School Rain Gauge)



APPENDIX A

LABORATORY
DATA REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210
ORELAP#: OR100021

March 10, 2010

Tony Ordway
CertainTeed Roofing Products Group
6350 NW Front Ave
Portland, OR 97210

RE: Stormwater Assessment

Enclosed are the results of analyses for samples received by the laboratory on 02/24/10 09:00. The following list is a summary of the Work Orders contained in this report, generated on 03/10/10 17:14.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PTB0681	Stormwater Assessment	[none]

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall A	PTB0681-01	Water	02/23/10 13:20	02/24/10 09:00
Outfall B	PTB0681-02	Water	02/23/10 13:50	02/24/10 09:00
TB	PTB0681-03	Water	02/23/10 00:00	02/24/10 09:00

TestAmerica Portland

Brian Cone, Industrial Services Manager

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Gasoline Hydrocarbons per NW TPH-Gx Method

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**				**Sampled: 02/23/10 13:20**			
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	-----	160	ug/l	2x	10B0755	02/25/10 14:16	02/26/10 07:23	**RL1**
Surrogate(s): 4-BFB (FID)				*99.3%*		*50 - 150 %*				"
PTB0681-02 (Outfall B)			**Water**				**Sampled: 02/23/10 13:50**			
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	-----	160	ug/l	2x	10B0755	02/25/10 14:16	02/26/10 07:59	**RL1**
Surrogate(s): 4-BFB (FID)				*101%*		*50 - 150 %*				"

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

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BEAVERTON, OR 97008-7132
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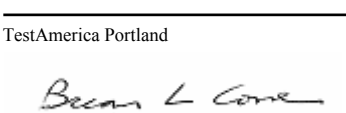
CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**			**Sampled: 02/23/10 13:20**				
Diesel Range Organics	NWTPH-Dx	**0.764**	-----	0.236	mg/l	1x	10C0057	03/03/10 06:50	03/03/10 10:03	**Q12**
Residual Range/Heavy Oil Organics	"	**0.960**	-----	0.472	"	"	"	"	"	**Q10**
Surrogate(s): 1-Chlorooctadecane				*89.5%*		*50 - 150 %*				"
PTB0681-02 (Outfall B)			**Water**			**Sampled: 02/23/10 13:50**				
Diesel Range Organics	NWTPH-Dx	**1.04**	-----	0.238	mg/l	1x	10C0057	03/03/10 06:50	03/03/10 10:21	**Q12**
Residual Range/Heavy Oil Organics	"	**1.51**	-----	0.476	"	"	"	"	"	**Q10**
Surrogate(s): 1-Chlorooctadecane				*79.8%*		*50 - 150 %*				"

TestAmerica Portland



Brian Cone, Industrial Services Manager

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Total Metals per EPA 200 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)				**Water**			**Sampled: 02/23/10 13:20**			
Aluminum	EPA 200.7	**1.53**	-----	0.100	mg/l	1x	10B0736	02/25/10 10:32	02/25/10 20:51	
Antimony	EPA 200.8	**0.00116**	-----	0.00100	"	"	10B0760	02/25/10 15:00	02/26/10 07:30	
Arsenic	"	**0.00118**	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Chromium	"	**0.00985**	-----	0.00200	"	"	"	"	"	
Copper	"	**0.0762**	-----	0.00200	"	"	"	"	"	
Lead	"	**0.0118**	-----	0.00100	"	"	"	"	"	
Manganese	"	**0.127**	-----	0.00200	"	"	"	"	"	
Nickel	"	**0.00464**	-----	0.00200	"	"	"	"	"	
Selenium	"	ND	-----	0.00100	"	"	"	"	"	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	**0.167**	-----	0.0100	"	"	"	"	"	
PTB0681-02 (Outfall B)				**Water**			**Sampled: 02/23/10 13:50**			
Aluminum	EPA 200.7	**2.56**	-----	0.100	mg/l	1x	10B0736	02/25/10 10:32	02/25/10 20:57	
Antimony	EPA 200.8	**0.00124**	-----	0.00100	"	"	10B0760	02/25/10 15:00	02/26/10 07:38	
Arsenic	"	**0.00126**	-----	0.00100	"	"	"	"	"	
Cadmium	"	ND	-----	0.00100	"	"	"	"	"	
Chromium	"	**0.0153**	-----	0.00200	"	"	"	"	"	
Copper	"	**0.0440**	-----	0.00200	"	"	"	"	"	
Lead	"	**0.00740**	-----	0.00100	"	"	"	"	"	
Manganese	"	**0.205**	-----	0.00200	"	"	"	"	"	
Nickel	"	**0.00524**	-----	0.00200	"	"	"	"	"	
Selenium	"	ND	-----	0.00100	"	"	"	"	"	
Silver	"	ND	-----	0.00100	"	"	"	"	"	
Zinc	"	**0.157**	-----	0.0100	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Total Mercury per EPA Method 7470A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**				**Sampled: 02/23/10 13:20**			
Mercury	EPA 7470A	ND	-----	0.000200	mg/l	1x	10C0096	03/03/10 12:16	03/03/10 17:07	
PTB0681-02 (Outfall B)			**Water**				**Sampled: 02/23/10 13:50**			
Mercury	EPA 7470A	ND	-----	0.000200	mg/l	1x	10C0096	03/03/10 12:16	03/03/10 17:10	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**			**Sampled: 02/23/10 13:20**				**RL1**
Acetone	EPA 8260B	ND	-----	50.0	ug/l	2x	10B0733	02/25/10 12:00	02/25/10 17:53	
Benzene	"	ND	-----	2.00	"	"	"	"	"	
Bromobenzene	"	ND	-----	2.00	"	"	"	"	"	
Bromochloromethane	"	ND	-----	2.00	"	"	"	"	"	
Bromodichloromethane	"	ND	-----	2.00	"	"	"	"	"	
Bromoform	"	ND	-----	2.00	"	"	"	"	"	
Bromomethane	"	ND	-----	10.0	"	"	"	"	"	
2-Butanone (MEK)	"	ND	-----	20.0	"	"	"	"	"	
n-Butylbenzene	"	ND	-----	10.0	"	"	"	"	"	
sec-Butylbenzene	"	ND	-----	2.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	-----	2.00	"	"	"	"	"	
Carbon disulfide	"	ND	-----	20.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	2.00	"	"	"	"	"	
Chlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
Chloroethane	"	ND	-----	2.00	"	"	"	"	"	
Chloroform	"	ND	-----	2.00	"	"	"	"	"	
Chloromethane	"	ND	-----	10.0	"	"	"	"	"	
2-Chlorotoluene	"	ND	-----	2.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	-----	10.0	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	-----	2.00	"	"	"	"	"	
Dibromomethane	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	-----	10.0	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	2.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	2.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	-----	2.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	2.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	-----	2.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	-----	2.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	-----	2.00	"	"	"	"	"	

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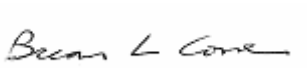

Brian Cone, Industrial Services Manager

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

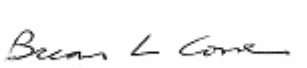
Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**				**Sampled: 02/23/10 13:20**			**RL1**
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	2.00	ug/l	2x	10B0733	02/25/10 12:00	02/25/10 17:53	
trans-1,3-Dichloropropene	"	ND	-----	2.00	"	"	"	"	"	
Ethylbenzene	"	ND	-----	2.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	8.00	"	"	"	"	"	
2-Hexanone	"	ND	-----	20.0	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	4.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	4.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	10.0	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	2.00	"	"	"	"	"	
Methylene chloride	"	ND	-----	10.0	"	"	"	"	"	
Naphthalene	"	ND	-----	4.00	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	2.00	"	"	"	"	"	
Styrene	"	ND	-----	2.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	2.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	2.00	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	2.00	"	"	"	"	"	
Toluene	"	ND	-----	2.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	2.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	2.00	"	"	"	"	"	
Trichloroethene	"	ND	-----	2.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	2.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	2.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	2.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	2.00	"	"	"	"	"	
Vinyl chloride	"	ND	-----	2.00	"	"	"	"	"	
o-Xylene	"	ND	-----	2.00	"	"	"	"	"	
m,p-Xylene	"	ND	-----	4.00	"	"	"	"	"	

Surrogate(s):	*Dibromofluoromethane*	*93.4%*	*80 - 120 %*	"
	1,2-DCA-d4	*99.8%*	*80 - 120 %*	"
	Toluene-d8	*93.2%*	*80 - 120 %*	"
	4-BFB	*94.0%*	*80 - 120 %*	"

TestAmerica Portland



Brian Cone, Industrial Services Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-02 (Outfall B)			**Water**				**Sampled: 02/23/10 13:50**			**RL1**
Acetone	EPA 8260B	ND	-----	50.0	ug/l	2x	10B0733	02/25/10 12:00	02/25/10 18:20	
Benzene	"	ND	-----	2.00	"	"	"	"	"	
Bromobenzene	"	ND	-----	2.00	"	"	"	"	"	
Bromochloromethane	"	ND	-----	2.00	"	"	"	"	"	
Bromodichloromethane	"	ND	-----	2.00	"	"	"	"	"	
Bromoform	"	ND	-----	2.00	"	"	"	"	"	
Bromomethane	"	ND	-----	10.0	"	"	"	"	"	
2-Butanone (MEK)	"	ND	-----	20.0	"	"	"	"	"	
n-Butylbenzene	"	ND	-----	10.0	"	"	"	"	"	
sec-Butylbenzene	"	ND	-----	2.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	-----	2.00	"	"	"	"	"	
Carbon disulfide	"	ND	-----	20.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	2.00	"	"	"	"	"	
Chlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
Chloroethane	"	ND	-----	2.00	"	"	"	"	"	
Chloroform	"	ND	-----	2.00	"	"	"	"	"	
Chloromethane	"	ND	-----	10.0	"	"	"	"	"	
2-Chlorotoluene	"	ND	-----	2.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	-----	10.0	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	-----	2.00	"	"	"	"	"	
Dibromomethane	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	-----	10.0	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	2.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	2.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	-----	2.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	2.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	2.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	-----	2.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	-----	2.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	-----	2.00	"	"	"	"	"	

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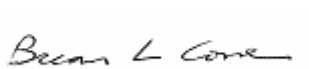


Brian Cone, Industrial Services Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

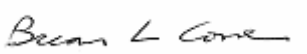
Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-02 (Outfall B)		**Water**				**Sampled: 02/23/10 13:50**				**RL1**
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	2.00	ug/l	2x	10B0733	02/25/10 12:00	02/25/10 18:20	
trans-1,3-Dichloropropene	"	ND	-----	2.00	"	"	"	"	"	
Ethylbenzene	"	ND	-----	2.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	8.00	"	"	"	"	"	
2-Hexanone	"	ND	-----	20.0	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	4.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	4.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	10.0	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	2.00	"	"	"	"	"	
Methylene chloride	"	ND	-----	10.0	"	"	"	"	"	
Naphthalene	"	ND	-----	4.00	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	2.00	"	"	"	"	"	
Styrene	"	ND	-----	2.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	2.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	2.00	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	2.00	"	"	"	"	"	
Toluene	"	ND	-----	2.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	2.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	2.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	2.00	"	"	"	"	"	
Trichloroethene	"	ND	-----	2.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	2.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	2.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	2.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	2.00	"	"	"	"	"	
Vinyl chloride	"	ND	-----	2.00	"	"	"	"	"	
o-Xylene	"	ND	-----	2.00	"	"	"	"	"	
m,p-Xylene	"	ND	-----	4.00	"	"	"	"	"	

Surrogate(s):	*Dibromofluoromethane*	*92.0%*	*80 - 120 %*	"
	1,2-DCA-d4	*105%*	*80 - 120 %*	"
	Toluene-d8	*94.6%*	*80 - 120 %*	"
	4-BFB	*97.0%*	*80 - 120 %*	"

TestAmerica Portland



Brian Cone, Industrial Services Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-03 (TB)			**Water**			**Sampled: 02/23/10 00:00**				
Acetone	EPA 8260B	ND	-----	25.0	ug/l	1x	10B0733	02/25/10 12:00	02/25/10 16:59	
Benzene	"	ND	-----	1.00	"	"	"	"	"	
Bromobenzene	"	ND	-----	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	-----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	-----	1.00	"	"	"	"	"	
Bromoform	"	ND	-----	1.00	"	"	"	"	"	
Bromomethane	"	ND	-----	5.00	"	"	"	"	"	
2-Butanone (MEK)	"	ND	-----	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	-----	5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	-----	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	-----	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	-----	10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Chloroethane	"	ND	-----	1.00	"	"	"	"	"	
Chloroform	"	**3.55**	-----	1.00	"	"	"	"	"	
Chloromethane	"	ND	-----	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	-----	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	-----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	-----	1.00	"	"	"	"	"	
Dibromomethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	-----	5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	-----	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	

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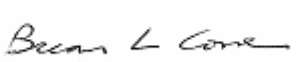

Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

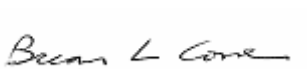
Volatile Organic Compounds per EPA Method 8260B

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-03 (TB)			**Water**				**Sampled: 02/23/10 00:00**			
cis-1,3-Dichloropropene	EPA 8260B	ND	-----	1.00	ug/l	1x	10B0733	02/25/10 12:00	02/25/10 16:59	
trans-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	-----	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	-----	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	-----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	-----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	-----	5.00	"	"	"	"	"	
Naphthalene	"	ND	-----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	-----	1.00	"	"	"	"	"	
Styrene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	-----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	-----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	-----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	-----	1.00	"	"	"	"	"	
o-Xylene	"	ND	-----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	-----	2.00	"	"	"	"	"	

Surrogate(s):	*Dibromofluoromethane*	*93.8%*	*80 - 120 %*	"
	1,2-DCA-d4	*104%*	*80 - 120 %*	"
	Toluene-d8	*93.6%*	*80 - 120 %*	"
	4-BFB	*97.8%*	*80 - 120 %*	"

TestAmerica Portland



Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**			**Sampled: 02/23/10 13:20**				
Acenaphthene	EPA 8270C	ND	-----	4.76	ug/l	1x	10B0741	02/25/10 13:25	03/03/10 00:31	
Acenaphthylene	"	ND	-----	4.76	"	"	"	"	"	
Anthracene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	4.76	"	"	"	"	"	
Benzoic Acid	"	ND	-----	47.6	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	9.52	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	4.76	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	4.76	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	19.0	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	9.52	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	4.76	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	9.52	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	4.76	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	4.76	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	4.76	"	"	"	"	"	
Chrysene	"	ND	-----	4.76	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	4.76	"	"	"	"	"	
Dibenzofuran	"	ND	-----	4.76	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	4.76	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	4.76	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	9.52	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	9.52	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	23.8	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	4.76	"	"	"	"	"	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**				**Sampled: 02/23/10 13:20**			
2,6-Dinitrotoluene	EPA 8270C	ND	-----	4.76	ug/l	1x	10B0741	02/25/10 13:25	03/03/10 00:31	
Bis(2-ethylhexyl)phthalate	"	ND	-----	9.52	"	"	"	"	"	
Fluoranthene	"	ND	-----	4.76	"	"	"	"	"	
Fluorene	"	ND	-----	4.76	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	9.52	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	9.52	"	"	"	"	"	
Hexachloroethane	"	ND	-----	9.52	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	4.76	"	"	"	"	"	
Isophorone	"	ND	-----	4.76	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	4.76	"	"	"	"	"	
2-Methylphenol	"	ND	-----	9.52	"	"	"	"	"	
3-,4-Methylphenol	"	**5.69**	-----	4.76	"	"	"	"	"	
Naphthalene	"	ND	-----	4.76	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	4.76	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	9.52	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	9.52	"	"	"	"	"	
Nitrobenzene	"	ND	-----	4.76	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	4.76	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	23.8	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	9.52	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	4.76	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	9.52	"	"	"	"	"	
Phenanthrene	"	ND	-----	4.76	"	"	"	"	"	
Phenol	"	ND	-----	4.76	"	"	"	"	"	
Pyrene	"	ND	-----	4.76	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	4.76	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	4.76	"	"	"	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*96.7%*	*20 - 120 %*	"
	2-Fluorophenol	*84.4%*	*10 - 120 %*	"
	Nitrobenzene-d5	*100%*	*20 - 130 %*	"
	Phenol-d6	*89.9%*	*10 - 125 %*	"
	p-Terphenyl-d14	*98.7%*	*35 - 130 %*	"
	2,4,6-Tribromophenol	*87.1%*	*20 - 130 %*	"

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-02 (Outfall B)			**Water**			**Sampled: 02/23/10 13:50**				
Acenaphthene	EPA 8270C	ND	-----	4.76	ug/l	1x	10B0741	02/25/10 13:25	03/03/10 01:15	
Acenaphthylene	"	ND	-----	4.76	"	"	"	"	"	
Anthracene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	4.76	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	4.76	"	"	"	"	"	
Benzoic Acid	"	ND	-----	47.6	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	9.52	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	4.76	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	4.76	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	19.0	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	9.52	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	4.76	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	9.52	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	4.76	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	4.76	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	4.76	"	"	"	"	"	
Chrysene	"	ND	-----	4.76	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	4.76	"	"	"	"	"	
Dibenzofuran	"	ND	-----	4.76	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	4.76	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	4.76	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	9.52	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	4.76	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	9.52	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	23.8	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	4.76	"	"	"	"	"	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-02 (Outfall B)			**Water**				**Sampled: 02/23/10 13:50**			
2,6-Dinitrotoluene	EPA 8270C	ND	-----	4.76	ug/l	1x	10B0741	02/25/10 13:25	03/03/10 01:15	
Bis(2-ethylhexyl)phthalate	"	ND	-----	9.52	"	"	"	"	"	
Fluoranthene	"	ND	-----	4.76	"	"	"	"	"	
Fluorene	"	ND	-----	4.76	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	9.52	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	9.52	"	"	"	"	"	
Hexachloroethane	"	ND	-----	9.52	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	4.76	"	"	"	"	"	
Isophorone	"	ND	-----	4.76	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	4.76	"	"	"	"	"	
2-Methylphenol	"	ND	-----	9.52	"	"	"	"	"	
3-,4-Methylphenol	"	ND	-----	4.76	"	"	"	"	"	
Naphthalene	"	ND	-----	4.76	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	4.76	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	9.52	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	9.52	"	"	"	"	"	
Nitrobenzene	"	ND	-----	4.76	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	4.76	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	23.8	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	9.52	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	4.76	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	9.52	"	"	"	"	"	
Phenanthrene	"	ND	-----	4.76	"	"	"	"	"	
Phenol	"	ND	-----	4.76	"	"	"	"	"	
Pyrene	"	ND	-----	4.76	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	4.76	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	4.76	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	4.76	"	"	"	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*96.0%*	*20 - 120 %*	"
	2-Fluorophenol	*81.3%*	*10 - 120 %*	"
	Nitrobenzene-d5	*101%*	*20 - 130 %*	"
	Phenol-d6	*86.3%*	*10 - 125 %*	"
	p-Terphenyl-d14	*96.6%*	*35 - 130 %*	"
	2,4,6-Tribromophenol	*83.2%*	*20 - 130 %*	"

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**			**Sampled: 02/23/10 13:20**				
Acenaphthene	EPA 8270m	ND	-----	0.0952	ug/l	1x	10B0742	02/25/10 13:25	03/03/10 19:57	
Acenaphthylene	"	ND	-----	0.143	"	"	"	"	"	**RL1**
Anthracene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	0.0952	"	"	"	"	"	
Chrysene	"	ND	-----	0.0952	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	0.190	"	"	"	"	"	
Fluoranthene	"	**0.0955**	-----	0.0952	"	"	"	"	"	
Fluorene	"	ND	-----	0.0952	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	0.0952	"	"	"	"	"	
Naphthalene	"	ND	-----	0.0952	"	"	"	"	"	
Phenanthrene	"	**0.0957**	-----	0.0952	"	"	"	"	"	
Pyrene	"	ND	-----	0.0952	"	"	"	"	"	
Surrogate(s): Fluorene-d10				*81.9%*		*25 - 125 %*				"
Pyrene-d10				*74.3%*		*23 - 150 %*				"
Benzo (a) pyrene-d12				*33.3%*		*10 - 125 %*				"
PTB0681-02 (Outfall B)			**Water**			**Sampled: 02/23/10 13:50**				
Acenaphthene	EPA 8270m	ND	-----	0.0952	ug/l	1x	10B0742	02/25/10 13:25	03/03/10 20:25	
Acenaphthylene	"	ND	-----	0.286	"	"	"	"	"	**RL1**
Anthracene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	0.0952	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	0.0952	"	"	"	"	"	
Chrysene	"	**0.141**	-----	0.0952	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	0.190	"	"	"	"	"	
Fluoranthene	"	**0.635**	-----	0.0952	"	"	"	"	"	
Fluorene	"	ND	-----	0.0952	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	0.0952	"	"	"	"	"	
Naphthalene	"	ND	-----	0.0952	"	"	"	"	"	
Phenanthrene	"	**0.241**	-----	0.0952	"	"	"	"	"	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Polynuclear Aromatic Compounds per EPA 8270M-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-02 (Outfall B)			**Water**			**Sampled: 02/23/10 13:50**				
Pyrene	EPA 8270m	**0.515**	-----	0.0952	ug/l	1x	10B0742	02/25/10 13:25	03/03/10 20:25	
Surrogate(s): Fluorene-d10				*81.7%*		*25 - 125 %*				"
Pyrene-d10				*76.4%*		*23 - 150 %*				"
Benzo (a) pyrene-d12				*38.5%*		*10 - 125 %*				"

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Phthalates per EPA 8270-SIM

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**			**Sampled: 02/23/10 13:20**				
Dimethyl phthalate	EPA 8270m	**0.956**	-----	0.952	ug/l	1x	10B0742	02/25/10 13:25	03/03/10 20:28	
Diethyl phthalate	"	ND	-----	0.952	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	0.952	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	0.952	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	-----	0.952	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	0.952	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl				*60.2%*		*10 - 150 %*				"
p-Terphenyl-d14				*75.5%*		*10 - 150 %*				"
PTB0681-02 (Outfall B)			**Water**			**Sampled: 02/23/10 13:50**				
Dimethyl phthalate	EPA 8270m	ND	-----	0.952	ug/l	1x	10B0742	02/25/10 13:25	03/03/10 21:02	
Diethyl phthalate	"	ND	-----	0.952	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	0.952	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	0.952	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	**1.01**	-----	0.952	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	0.952	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl				*76.6%*		*10 - 150 %*				"
p-Terphenyl-d14				*85.4%*		*10 - 150 %*				"

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Conventional Chemistry Parameters per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**				**Sampled: 02/23/10 13:20**			
Total Suspended Solids	SM 2540D	**60.0**	-----	10.0	mg/l	1x	10B0784	02/26/10 10:39	02/26/10 18:37	
Total Organic Carbon	SM 5310C	**19.8**	-----	1.00	"	"	10B0785	02/26/10 11:18	02/27/10 20:56	**P4**
PTB0681-02 (Outfall B)			**Water**				**Sampled: 02/23/10 13:50**			
Total Suspended Solids	SM 2540D	**60.0**	-----	10.0	mg/l	1x	10B0784	02/26/10 10:39	02/26/10 18:37	
Total Organic Carbon	SM 5310C	**14.5**	-----	1.00	"	"	10B0785	02/26/10 11:18	02/27/10 20:56	**P4**

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Field Testing of Conventional Chemistry Parameters per APHA/EPA Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTB0681-01 (Outfall A)			**Water**				**Sampled: 02/23/10 13:20**			
pH	EPA 150.1	**7.27**	-----		pH Units	1x	10B0745	02/23/10 13:25	02/23/10 13:30	
PTB0681-02 (Outfall B)			**Water**				**Sampled: 02/23/10 13:50**			
pH	EPA 150.1	**6.99**	-----		pH Units	1x	10B0745	02/23/10 13:55	02/23/10 14:00	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Gasoline Hydrocarbons per NW TPH-Gx Method - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0755 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0755-BLK1)								**Extracted: 02/25/10 14:16**						
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	--	--	--	--	--	--	02/25/10 19:29	
Surrogate(s): 4-BFB (FID)		*Recovery: 100%*			*Limits: 50-150%*								*02/25/10 19:29*	
LCS (10B0755-BS1)								**Extracted: 02/25/10 14:16**						
Gasoline Range Hydrocarbons	NW TPH-Gx	516	---	80.0	ug/l	1x	--	500	103%	(70-130)	--	--	02/25/10 18:18	
Surrogate(s): 4-BFB (FID)		*Recovery: 100%*			*Limits: 50-150%*								*02/25/10 18:18*	
LCS Dup (10B0755-BSD1)								**Extracted: 02/25/10 14:16**						
Gasoline Range Hydrocarbons	NW TPH-Gx	572	---	80.0	ug/l	1x	--	500	114%	(70-130)	10.2%	(35)	02/25/10 18:54	
Surrogate(s): 4-BFB (FID)		*Recovery: 103%*			*Limits: 50-150%*								*02/25/10 18:54*	
Duplicate (10B0755-DUP1)							**QC Source: PTB0669-01**			**Extracted: 02/25/10 14:16**				
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	ND	--	--	--	NR	(35)	02/25/10 21:15	
Surrogate(s): 4-BFB (FID)		*Recovery: 97.4%*			*Limits: 50-150%*								*02/25/10 21:15*	
Duplicate (10B0755-DUP2)							**QC Source: PTB0669-02**			**Extracted: 02/25/10 14:16**				
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	ND	--	--	--	NR	(35)	02/25/10 22:26	
Surrogate(s): 4-BFB (FID)		*Recovery: 98.2%*			*Limits: 50-150%*								*02/25/10 22:26*	

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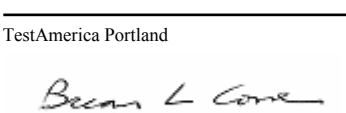

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10C0057 **Water Preparation Method: EPA 3510 Fuels**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10C0057-BLK1)								**Extracted: 03/03/10 06:50**						
Diesel Range Organics	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	03/03/10 09:06	
Residual Range/Heavy Oil Organics	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 78.8%*			*Limits: 50-150%*								*03/03/10 09:06*	
LCS (10C0057-BS1)								**Extracted: 03/03/10 07:30**						
Diesel Range Organics	NWTPH-Dx	1.98	---	0.250	mg/l	1x	--	2.50	79.1%	(50-150)	--	--	03/03/10 09:25	
Residual Range/Heavy Oil Organics	"	1.16	---	0.500	"	"	--	1.50	77.0%	"	--	--	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 75.7%*			*Limits: 60-120%*								*03/03/10 09:25*	
LCS Dup (10C0057-BSD1)								**Extracted: 03/03/10 07:30**						
Diesel Range Organics	NWTPH-Dx	1.86	---	0.250	mg/l	1x	--	2.50	74.5%	(50-150)	5.92%	(20)	03/03/10 09:44	
Residual Range/Heavy Oil Organics	"	1.11	---	0.500	"	"	--	1.50	73.9%	"	4.18%	"	"	
Surrogate(s): 1-Chlorooctadecane		*Recovery: 72.2%*			*Limits: 60-120%*								*03/03/10 09:44*	

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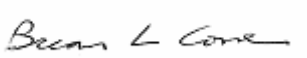

Brian Cone, Industrial Services Manager

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0736 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0736-BLK1)									**Extracted: 02/25/10 10:32**					
Aluminum	EPA 200.7	ND	---	0.100	mg/l	1x	--	--	--	--	--	--	02/25/10 20:28	
LCS (10B0736-BS1)									**Extracted: 02/25/10 10:32**					
Aluminum	EPA 200.7	5.28	---	0.100	mg/l	1x	--	5.00	106%	(85-115)	--	--	02/25/10 20:34	
Duplicate (10B0736-DUP1)					**QC Source: PTB0702-02**				**Extracted: 02/25/10 10:32**					
Aluminum	EPA 200.7	ND	---	0.100	mg/l	1x	ND	--	--	--	NR	(20)	02/25/10 21:15	
Matrix Spike (10B0736-MS1)					**QC Source: PTB0702-02**				**Extracted: 02/25/10 10:32**					
Aluminum	EPA 200.7	5.17	---	0.100	mg/l	1x	ND	5.00	103%	(75-125)	--	--	02/25/10 21:20	
Matrix Spike (10B0736-MS2)					**QC Source: PTB0707-01**				**Extracted: 02/25/10 10:32**					
Aluminum	EPA 200.7	5.44	---	0.100	mg/l	1x	0.0657	5.00	107%	(75-125)	--	--	02/25/10 22:15	

QC Batch: 10B0760 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0760-BLK1)									**Extracted: 02/25/10 15:00**					
Antimony	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	02/26/10 05:57	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Manganese	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (10B0760-BS1)									**Extracted: 02/25/10 15:00**					
Antimony	EPA 200.8	0.0506	---	0.00100	mg/l	1x	--	0.0500	101%	(85-115)	--	--	02/26/10 06:05	
Arsenic	"	0.0986	---	0.00100	"	"	--	0.100	98.6%	"	--	--	"	
Cadmium	"	0.101	---	0.00100	"	"	--	"	101%	"	--	--	"	
Chromium	"	0.0988	---	0.00200	"	"	--	"	98.8%	"	--	--	"	
Copper	"	0.0963	---	0.00200	"	"	--	"	96.3%	"	--	--	"	
Lead	"	0.101	---	0.00100	"	"	--	"	101%	"	--	--	"	
Manganese	"	0.103	---	0.00200	"	"	--	"	103%	"	--	--	"	

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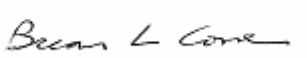

Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0760 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (10B0760-BS1)								**Extracted: 02/25/10 15:00**						
Nickel	EPA 200.8	0.0964	---	0.00200	mg/l	1x	--	0.100	96.4%	(85-115)	--	--	02/26/10 06:05	
Selenium	"	0.0987	---	0.00100	"	"	--	"	98.7%	"	--	--	"	
Silver	"	0.0507	---	0.00100	"	"	--	0.0500	101%	"	--	--	"	
Zinc	"	0.0941	---	0.0100	"	"	--	0.100	94.1%	"	--	--	"	
Duplicate (10B0760-DUP1)							**QC Source: PTB0680-03**						**Extracted: 02/25/10 15:00**	
Antimony	EPA 200.8	ND	---	0.00100	mg/l	1x	ND	--	--	--	9.52%	(20)	02/26/10 06:59	
Arsenic	"	ND	---	0.00100	"	"	ND	--	--	--	0.00%	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Chromium	"	0.00230	---	0.00200	"	"	0.00231	--	--	--	0.434%	"	"	
Copper	"	0.0133	---	0.00200	"	"	0.0133	--	--	--	0.0754%	"	"	
Lead	"	0.00493	---	0.00100	"	"	0.00515	--	--	--	4.37%	"	"	
Manganese	"	0.0834	---	0.00200	"	"	0.0846	--	--	--	1.45%	"	"	
Nickel	"	0.00208	---	0.00200	"	"	0.00203	--	--	--	2.43%	"	"	
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Zinc	"	0.0779	---	0.0100	"	"	0.0782	--	--	--	0.397%	"	"	
Matrix Spike (10B0760-MS1)							**QC Source: PTB0680-03**						**Extracted: 02/25/10 15:00**	
Antimony	EPA 200.8	0.0508	---	0.00100	mg/l	1x	0.000550	0.0500	101%	(70-130)	--	--	02/26/10 07:07	
Arsenic	"	0.0987	---	0.00100	"	"	0.000440	0.100	98.2%	"	--	--	"	
Cadmium	"	0.103	---	0.00100	"	"	ND	"	103%	"	--	--	"	
Chromium	"	0.100	---	0.00200	"	"	0.00231	"	97.9%	(75-125)	--	--	"	
Copper	"	0.108	---	0.00200	"	"	0.0133	"	95.0%	"	--	--	"	
Lead	"	0.106	---	0.00100	"	"	0.00515	"	101%	"	--	--	"	
Manganese	"	0.188	---	0.00200	"	"	0.0846	"	103%	(70-130)	--	--	"	
Nickel	"	0.0966	---	0.00200	"	"	0.00203	"	94.6%	"	--	--	"	
Selenium	"	0.0984	---	0.00100	"	"	ND	"	98.4%	"	--	--	"	
Silver	"	0.0503	---	0.00100	"	"	ND	0.0500	101%	"	--	--	"	
Zinc	"	0.173	---	0.0100	"	"	0.0782	0.100	94.4%	"	--	--	"	

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Brian L Cone

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0760 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (10B0760-MS2)				**QC Source: PTB0685-01**				**Extracted: 02/25/10 15:00**						
Antimony	EPA 200.8	0.0560	---	0.00100	mg/l	1x	0.000290	0.0500	111%	(70-130)	--	--	02/26/10 08:17	
Arsenic	"	0.102	---	0.00100	"	"	0.000670	0.100	102%	"	--	--	"	
Cadmium	"	0.109	---	0.00100	"	"	ND	"	109%	"	--	--	"	
Chromium	"	0.102	---	0.00200	"	"	ND	"	102%	(75-125)	--	--	"	
Copper	"	0.0982	---	0.00200	"	"	0.00290	"	95.3%	"	--	--	"	
Lead	"	0.106	---	0.00100	"	"	ND	"	106%	"	--	--	"	
Manganese	"	0.109	---	0.00200	"	"	0.00464	"	104%	(70-130)	--	--	"	
Nickel	"	0.0967	---	0.00200	"	"	0.000300	"	96.4%	"	--	--	"	
Selenium	"	0.101	---	0.00100	"	"	ND	"	101%	"	--	--	"	
Silver	"	0.0532	---	0.00100	"	"	ND	0.0500	106%	"	--	--	"	
Zinc	"	0.484	---	0.0100	"	"	0.390	0.100	94.1%	"	--	--	"	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Total Mercury per EPA Method 7470A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10C0096 **Water Preparation Method: EPA 7470A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10C0096-BLK1)								**Extracted: 03/03/10 12:16**						
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	03/03/10 16:32	
LCS (10C0096-BS1)								**Extracted: 03/03/10 12:16**						
Mercury	EPA 7470A	0.00475	---	0.000200	mg/l	1x	--	0.00500	95.0%	(85-115)	--	--	03/03/10 16:35	
LCS Dup (10C0096-BSD1)								**Extracted: 03/03/10 12:16**						
Mercury	EPA 7470A	0.00483	---	0.000200	mg/l	1x	--	0.00500	96.5%	(85-115)	1.59%	(20)	03/03/10 16:38	
Duplicate (10C0096-DUP1)					**QC Source: PTB0808-01**			**Extracted: 03/03/10 12:16**						
Mercury	EPA 7470A	0.000944	---	0.000200	mg/l	1x	0.00127	--	--	--	29.8%	(20)	03/03/10 17:45	R2
Matrix Spike (10C0096-MS1)					**QC Source: PTB0808-01**			**Extracted: 03/03/10 12:16**						
Mercury	EPA 7470A	0.00508	---	0.000200	mg/l	1x	0.00127	0.00500	76.1%	(75-125)	--	--	03/03/10 16:43	
Matrix Spike Dup (10C0096-MSD1)					**QC Source: PTB0808-01**			**Extracted: 03/03/10 12:16**						
Mercury	EPA 7470A	0.00502	---	0.000200	mg/l	1x	0.00127	0.00500	75.0%	(75-125)	1.14%	(20)	03/03/10 16:46	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0733 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0733-BLK1)								**Extracted: 02/25/10 09:00**						
Acetone	EPA 8260B	ND	---	25.0	ug/l	1x	--	--	--	--	--	--	02/25/10 12:31	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

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Brian L Cone

Brian Cone, Industrial Services Manager

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0733 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0733-BLK1)							**Extracted: 02/25/10 09:00**							
Hexachlorobutadiene	EPA 8260B	ND	---	4.00	ug/l	1x	--	--	--	--	--	--	02/25/10 12:31	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*Dibromofluoromethane*	*Recovery: 93.2%*	*Limits: 80-120%*	*02/25/10 12:31*
	1,2-DCA-d4	*103%*	*80-120%*	*"*
	Toluene-d8	*92.8%*	*80-120%*	*"*
	4-BFB	*97.2%*	*80-120%*	*"*

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Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0733 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (10B0733-BS1)									**Extracted: 02/25/10 09:00**					
Benzene	EPA 8260B	19.0	---	1.00	ug/l	1x	--	20.0	94.8%	(80-120)	--	--	02/25/10 09:50	
Chlorobenzene	"	19.1	---	1.00	"	"	--	"	95.6%	(80-124)	--	--	"	
1,1-Dichloroethene	"	17.6	---	1.00	"	"	--	"	88.0%	(78-120)	--	--	"	
Toluene	"	19.4	---	1.00	"	"	--	"	97.1%	(80-124)	--	--	"	
Trichloroethene	"	19.4	---	1.00	"	"	--	"	97.2%	(80-132)	--	--	"	
Surrogate(s): Dibromofluoromethane		*Recovery: 94.4%*			*Limits: 80-120%*								*02/25/10 09:50*	
1,2-DCA-d4		*107%*			*80-120%*								*"*	
Toluene-d8		*95.4%*			*80-120%*								*"*	
4-BFB		*97.8%*			*80-120%*								*"*	
LCS Dup (10B0733-BSD1)									**Extracted: 02/25/10 09:00**					
Benzene	EPA 8260B	19.5	---	1.00	ug/l	1x	--	20.0	97.6%	(80-120)	2.91%	(25)	02/25/10 10:17	
Chlorobenzene	"	19.3	---	1.00	"	"	--	"	96.6%	(80-124)	0.988%	"	"	
1,1-Dichloroethene	"	18.4	---	1.00	"	"	--	"	92.2%	(78-120)	4.55%	"	"	
Toluene	"	19.8	---	1.00	"	"	--	"	98.9%	(80-124)	1.84%	"	"	
Trichloroethene	"	20.0	---	1.00	"	"	--	"	100%	(80-132)	2.79%	"	"	
Surrogate(s): Dibromofluoromethane		*Recovery: 96.4%*			*Limits: 80-120%*								*02/25/10 10:17*	
1,2-DCA-d4		*106%*			*80-120%*								*"*	
Toluene-d8		*95.0%*			*80-120%*								*"*	
4-BFB		*96.6%*			*80-120%*								*"*	
Matrix Spike (10B0733-MS1)					**QC Source: PTB0681-02**				**Extracted: 02/25/10 09:00**					
Benzene	EPA 8260B	31.9	---	2.00	ug/l	2x	ND	40.0	79.8%	(80-124)	--	--	02/25/10 18:46	M8
Chlorobenzene	"	31.7	---	2.00	"	"	ND	"	79.2%	(72.9-134)	--	--	"	
1,1-Dichloroethene	"	29.4	---	2.00	"	"	ND	"	73.4%	(79.3-127)	--	--	"	M8
Toluene	"	33.1	---	2.00	"	"	0.560	"	81.4%	(79.7-131)	--	--	"	
Trichloroethene	"	32.5	---	2.00	"	"	ND	"	81.2%	(68.4-130)	--	--	"	
Surrogate(s): Dibromofluoromethane		*Recovery: 97.5%*			*Limits: 80-120%*								*02/25/10 18:46*	
1,2-DCA-d4		*105%*			*80-120%*								*"*	
Toluene-d8		*95.1%*			*80-120%*								*"*	
4-BFB		*101%*			*80-120%*								*"*	

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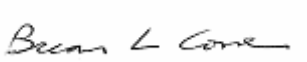

Brian Cone, Industrial Services Manager

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0733 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (10B0733-MSD1)				**QC Source: PTB0681-02**				**Extracted: 02/25/10 09:00**						
Benzene	EPA 8260B	32.8	---	2.00	ug/l	2x	ND	40.0	82.0%	(80-124)	2.78%	(25)	02/25/10 19:13	
Chlorobenzene	"	32.4	---	2.00	"	"	ND	"	80.9%	(72.9-134)	2.12%	"	"	
1,1-Dichloroethene	"	30.4	---	2.00	"	"	ND	"	76.0%	(79.3-127)	3.35%	"	"	M8
Toluene	"	33.9	---	2.00	"	"	0.560	"	83.3%	(79.7-131)	2.33%	"	"	
Trichloroethene	"	33.5	---	2.00	"	"	ND	"	83.8%	(68.4-130)	3.27%	"	"	

Surrogate(s):	*Dibromofluoromethane*	*Recovery: 98.4%*	*Limits: 80-120%*	*02/25/10 19:13*
	1,2-DCA-d4	*105%*	*80-120%*	*"*
	Toluene-d8	*94.7%*	*80-120%*	*"*
	4-BFB	*100%*	*80-120%*	*"*

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0741 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0741-BLK1)								**Extracted: 02/25/10 13:25**						
Acenaphthene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	03/02/10 21:34	
Acenaphthylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3,3´-Dichlorobenzidine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

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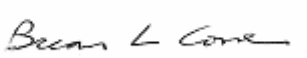

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0741 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0741-BLK1)							**Extracted: 02/25/10 13:25**							
Fluorene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	03/02/10 21:34	
Hexachlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3-,4-Methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery: 85.1%*	*Limits: 20-120%*	*03/02/10 21:34*
	2-Fluorophenol	*86.9%*	*10-120%*	*"*
	Nitrobenzene-d5	*103%*	*20-130%*	*"*
	Phenol-d6	*98.0%*	*10-125%*	*"*
	p-Terphenyl-d14	*114%*	*35-130%*	*"*
	2,4,6-Tribromophenol	*85.6%*	*20-130%*	*"*

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**
6350 NW Front Ave	Project Number:	[none]
Portland, OR 97210	Project Manager:	Tony Ordway

Report Created: 03/10/10 17:14

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0741 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (10B0741-BS1)								**Extracted: 02/25/10 13:25**						
Acenaphthene	EPA 8270C	50.7	---	5.00	ug/l	1x	--	50.0	101%	(55-120)	--	--	03/02/10 18:38	
4-Chloro-3-methylphenol	"	47.6	---	5.00	"	"	--	"	95.2%	(35-135)	--	--	"	
2-Chlorophenol	"	50.1	---	5.00	"	"	--	"	100%	(30-130)	--	--	"	
1,4-Dichlorobenzene	"	44.8	---	5.00	"	"	--	"	89.6%	(10-125)	--	--	"	
2,4-Dinitrotoluene	"	56.8	---	5.00	"	"	--	"	114%	(50-130)	--	--	"	
4-Nitrophenol	"	48.5	---	25.0	"	"	--	"	97.0%	(10-150)	--	--	"	
N-Nitrosodi-n-propylamine	"	51.9	---	10.0	"	"	--	"	104%	(40-130)	--	--	"	
Pentachlorophenol	"	43.7	---	10.0	"	"	--	"	87.5%	(20-150)	--	--	"	
Phenol	"	45.4	---	5.00	"	"	--	"	90.8%	(10-145)	--	--	"	
Pyrene	"	58.3	---	5.00	"	"	--	"	117%	(55-125)	--	--	"	
1,2,4-Trichlorobenzene	"	46.5	---	5.00	"	"	--	"	93.1%	(30-120)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 81.2%*			*Limits: 20-120%*								*03/02/10 18:38*	
2-Fluorophenol		*87.4%*			*10-120%*								*"*	
Nitrobenzene-d5		*100%*			*20-130%*								*"*	
Phenol-d6		*94.1%*			*10-125%*								*"*	
p-Terphenyl-d14		*104%*			*35-130%*								*"*	
2,4,6-Tribromophenol		*87.5%*			*20-130%*								*"*	
Matrix Spike (10B0741-MS1)					**QC Source: PTB0681-02**			**Extracted: 02/25/10 13:25**						
Acenaphthene	EPA 8270C	51.1	---	14.3	ug/l	3x	ND	47.6	107%	(20-150)	--	--	03/02/10 20:06	
4-Chloro-3-methylphenol	"	48.8	---	14.3	"	"	ND	"	102%	(10-150)	--	--	"	
2-Chlorophenol	"	45.4	---	14.3	"	"	ND	"	95.4%	"	--	--	"	
1,4-Dichlorobenzene	"	46.7	---	14.3	"	"	ND	"	98.0%	"	--	--	"	
2,4-Dinitrotoluene	"	50.1	---	14.3	"	"	ND	"	105%	"	--	--	"	
4-Nitrophenol	"	44.0	---	71.4	"	"	ND	"	92.3%	"	--	--	"	
N-Nitrosodi-n-propylamine	"	55.6	---	28.6	"	"	ND	"	117%	"	--	--	"	
Pentachlorophenol	"	44.7	---	28.6	"	"	ND	"	93.9%	"	--	--	"	
Phenol	"	45.9	---	14.3	"	"	ND	"	96.3%	"	--	--	"	
Pyrene	"	60.8	---	14.3	"	"	ND	"	128%	(20-135)	--	--	"	
1,2,4-Trichlorobenzene	"	45.9	---	14.3	"	"	ND	"	96.3%	(10-150)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 98.6%*			*Limits: 20-120%*								*03/02/10 20:06*	
2-Fluorophenol		*81.6%*			*10-120%*								*"*	
Nitrobenzene-d5		*101%*			*20-130%*								*"*	
Phenol-d6		*91.4%*			*10-125%*								*"*	
p-Terphenyl-d14		*112%*			*35-130%*								*"*	
2,4,6-Tribromophenol		*91.0%*			*20-130%*								*"*	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0741 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (10B0741-MSD1)					**QC Source: PTB0681-02**				**Extracted: 02/25/10 13:25**					
Acenaphthene	EPA 8270C	54.1	---	14.3	ug/l	3x	ND	47.6	114%	(20-150)	5.65%	(50)	03/02/10 20:50	
4-Chloro-3-methylphenol	"	50.5	---	14.3	"	"	ND	"	106%	(10-150)	3.45%	"	"	
2-Chlorophenol	"	50.7	---	14.3	"	"	ND	"	106%	"	10.9%	"	"	
1,4-Dichlorobenzene	"	50.3	---	14.3	"	"	ND	"	106%	"	7.37%	"	"	
2,4-Dinitrotoluene	"	55.3	---	14.3	"	"	ND	"	116%	"	9.76%	"	"	
4-Nitrophenol	"	41.3	---	71.4	"	"	ND	"	86.8%	"	6.16%	"	"	
N-Nitrosodi-n-propylamine	"	57.9	---	28.6	"	"	ND	"	122%	"	4.03%	"	"	
Pentachlorophenol	"	44.5	---	28.6	"	"	ND	"	93.4%	"	0.513%	"	"	
Phenol	"	47.7	---	14.3	"	"	ND	"	100%	"	3.97%	"	"	
Pyrene	"	62.4	---	14.3	"	"	ND	"	131%	(20-135)	2.60%	"	"	
1,2,4-Trichlorobenzene	"	47.6	---	14.3	"	"	ND	"	100%	(10-150)	3.79%	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery: 98.8%*	*Limits: 20-120%*	*03/02/10 20:50*
	2-Fluorophenol	*85.3%*	*10-120%*	*"*
	Nitrobenzene-d5	*105%*	*20-130%*	*"*
	Phenol-d6	*90.3%*	*10-125%*	*"*
	p-Terphenyl-d14	*107%*	*35-130%*	*"*
	2,4,6-Tribromophenol	*84.9%*	*20-130%*	*"*

TestAmerica Portland

Brian Cone, Industrial Services Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0742 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0742-BLK1)									Extracted: 02/25/10 13:25					
Acenaphthene	EPA 8270m	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	03/03/10 18:33	
Acenaphthylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*92.2%*		*Limits:*	*25-125%*							*03/03/10 18:33*	
	Pyrene-d10		*103%*			*23-150%*							*"*	
	Benzo (a) pyrene-d12		*82.6%*			*10-125%*							*"*	
LCS (10B0742-BS1)									Extracted: 02/25/10 13:25					
Acenaphthene	EPA 8270m	2.34	---	0.100	ug/l	1x	--	2.50	93.6%	(26-135)	--	--	03/03/10 18:05	
Benzo (a) pyrene	"	2.19	---	0.100	"	"	--	"	87.7%	(38-137)	--	--	"	
Pyrene	"	2.24	---	0.100	"	"	--	"	89.6%	(33-133)	--	--	"	
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*93.9%*		*Limits:*	*25-125%*							*03/03/10 18:05*	
	Pyrene-d10		*89.8%*			*23-150%*							*"*	
	Benzo (a) pyrene-d12		*86.8%*			*10-125%*							*"*	
Matrix Spike (10B0742-MS1)							QC Source: PTB0681-02		Extracted: 02/25/10 13:25					
Acenaphthene	EPA 8270m	1.88	---	0.381	ug/l	4x	ND	2.38	79.0%	(26-135)	--	--	03/03/10 19:01	
Benzo (a) pyrene	"	1.22	---	0.381	"	"	ND	"	51.3%	(38-137)	--	--	"	
Pyrene	"	2.27	---	0.381	"	"	0.515	"	73.6%	(33-133)	--	--	"	
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*75.3%*		*Limits:*	*25-125%*							*03/03/10 19:01*	
	Pyrene-d10		*70.8%*			*23-150%*							*"*	
	Benzo (a) pyrene-d12		*32.3%*			*10-125%*							*"*	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0742 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (10B0742-MSD1)					**QC Source: PTB0681-02**				**Extracted: 02/25/10 13:25**					
Acenaphthene	EPA 8270m	2.07	---	0.381	ug/l	4x	ND	2.38	86.9%	(26-135)	9.56%	(60)	03/03/10 19:29	
Benzo (a) pyrene	"	1.24	---	0.381	"	"	ND	"	52.2%	(38-137)	1.79%	"	"	
Pyrene	"	2.43	---	0.381	"	"	0.515	"	80.5%	(33-133)	7.06%	"	"	
Surrogate(s):	*Fluorene-d10*	*Recovery:*	*79.9%*		*Limits: 25-125%*								*03/03/10 19:29*	
	Pyrene-d10		*77.7%*		*23-150%*								*"*	
	Benzo (a) pyrene-d12		*39.7%*		*10-125%*								*"*	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Phthalates per EPA 8270-SIM - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0742 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0742-BLK1)									**Extracted: 02/25/10 13:25**					
Dimethyl phthalate	EPA 8270m	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	03/03/10 17:06	
Diethyl phthalate	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 71.1%*			*Limits: 10-150%*								*03/03/10 17:06*	
p-Terphenyl-d14		*83.7%*			*10-150%*								*"*	
LCS (10B0742-BS1)									**Extracted: 02/25/10 13:25**					
Dimethyl phthalate	EPA 8270m	3.12	---	1.00	ug/l	1x	--	4.00	78.0%	(20-150)	--	--	03/03/10 17:39	
Diethyl phthalate	"	3.25	---	1.00	"	"	--	"	81.3%	"	--	--	"	
Di-n-butyl phthalate	"	3.40	---	1.00	"	"	--	"	84.9%	"	--	--	"	
Butyl benzyl phthalate	"	3.42	---	1.00	"	"	--	"	85.6%	"	--	--	"	
Bis(2-ethylhexyl)phthalate	"	3.16	---	1.00	"	"	--	"	79.0%	"	--	--	"	
Di-n-octyl phthalate	"	2.77	---	1.00	"	"	--	"	69.2%	"	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 66.8%*			*Limits: 10-150%*								*03/03/10 17:39*	
p-Terphenyl-d14		*76.6%*			*10-150%*								*"*	
Matrix Spike (10B0742-MS1)							**QC Source: PTB0681-02**		**Extracted: 02/25/10 13:25**					
Dimethyl phthalate	EPA 8270m	3.58	---	3.81	ug/l	4x	0.612	3.81	77.8%	(10-150)	--	--	03/03/10 18:13	
Diethyl phthalate	"	3.21	---	3.81	"	"	ND	"	84.3%	"	--	--	"	
Di-n-butyl phthalate	"	2.56	---	3.81	"	"	ND	"	67.3%	"	--	--	"	
Butyl benzyl phthalate	"	2.28	---	3.81	"	"	ND	"	59.9%	"	--	--	"	
Bis(2-ethylhexyl)phthalate	"	2.59	---	3.81	"	"	1.01	"	41.5%	"	--	--	"	
Di-n-octyl phthalate	"	1.60	---	3.81	"	"	ND	"	42.1%	"	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 74.4%*			*Limits: 10-150%*								*03/03/10 18:13*	
p-Terphenyl-d14		*81.4%*			*10-150%*								*"*	
Matrix Spike Dup (10B0742-MSD1)							**QC Source: PTB0681-02**		**Extracted: 02/25/10 13:25**					
Dimethyl phthalate	EPA 8270m	3.83	---	3.81	ug/l	4x	0.612	3.81	84.5%	(10-150)	6.86%	(50)	03/03/10 18:47	
Diethyl phthalate	"	3.39	---	3.81	"	"	ND	"	89.0%	"	5.43%	"	"	
Di-n-butyl phthalate	"	2.59	---	3.81	"	"	ND	"	67.9%	"	0.898%	"	"	
Butyl benzyl phthalate	"	2.25	---	3.81	"	"	ND	"	59.2%	"	1.12%	"	"	
Bis(2-ethylhexyl)phthalate	"	2.21	---	3.81	"	"	1.01	"	31.5%	"	16.0%	"	"	
Di-n-octyl phthalate	"	1.55	---	3.81	"	"	ND	"	40.7%	"	3.54%	"	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 82.3%*			*Limits: 10-150%*								*03/03/10 18:47*	
p-Terphenyl-d14		*89.4%*			*10-150%*								*"*	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10B0784 **Water Preparation Method: General**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0784-BLK1)									**Extracted: 02/26/10 10:39**					
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	--	--	--	--	--	--	02/26/10 18:37	
LCS (10B0784-BS1)									**Extracted: 02/26/10 10:39**					
Total Suspended Solids	SM 2540D	60.0	---	10.0	mg/l	1x	--	60.0	100%	(80-120)	--	--	02/26/10 18:37	
Duplicate (10B0784-DUP1)					**QC Source: PTB0683-01**				**Extracted: 02/26/10 10:39**					
Total Suspended Solids	SM 2540D	10.0	---	10.0	mg/l	1x	10.0	--	--	--	0.00%	(20)	02/26/10 18:37	

QC Batch: 10B0785 **Water Preparation Method: General**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10B0785-BLK1)									**Extracted: 02/26/10 11:18**					
Total Organic Carbon	SM 5310C	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	02/27/10 20:56	
LCS (10B0785-BS1)									**Extracted: 02/26/10 11:18**					
Total Organic Carbon	SM 5310C	19.6	---	1.00	mg/l	1x	--	20.0	98.0%	(85-115)	--	--	02/27/10 20:56	
Duplicate (10B0785-DUP1)					**QC Source: PTB0631-01**				**Extracted: 02/26/10 11:18**					
Total Organic Carbon	SM 5310C	1.35	---	1.00	mg/l	1x	1.68	--	--	--	21.6%	(20)	02/27/10 20:56	R2
Matrix Spike (10B0785-MS1)					**QC Source: PTB0631-01**				**Extracted: 02/26/10 11:18**					
Total Organic Carbon	SM 5310C	28.3	---	1.03	mg/l	1x	1.68	25.6	104%	(75-125)	--	--	02/27/10 20:56	

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CertainTeed Roofing Products Group	Project Name:	**Stormwater Assessment**	
6350 NW Front Ave	Project Number:	[none]	Report Created:
Portland, OR 97210	Project Manager:	Tony Ordway	03/10/10 17:14

Notes and Definitions

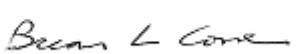
Report Specific Notes:

M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
P4	-	Sample received in inappropriate sample container.
Q10	-	Hydrocarbon pattern most closely resembles a blend of oil as well as biogenic interference.
Q12	-	Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.
R2	-	The RPD exceeded the acceptance limit.
RL1	-	Reporting limit raised due to sample matrix effects.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland



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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact
Certain Teed Roofing Products Group
6350 NW Front Ave.
Portland, OR 97210
503-222-1307 Phone
503-248-9271 FAX
Client PM: Tony Ordway
Project Name: Stormwater Monitoring
Laboratory PM: Brian Cone

Analysis Turnaround Time
10 Day

Work Order #
PTB0681

Sample Identification	Sample Date	Sample Time	Preservation Used	Matrix	# of Cont.	Filtered Sample	FT-pH Outfall A: 7.27	FT-pH OutfallB: 6.99	TSS	TOC	Ag, Al, As, Cd, Cu, Hg, Mn, Ni, Pb, Sb, Se, Z	Dx	Gx	8270 SIM PAH*	8270 Semivolatiles*	8270 SIM Phthalates*	8260**	Sampling Event-Grab	Time Chemist Hour: 1	TB					Sample Specific Notes:
Outfall A	02-23	1320	1, 2, 4	Water	14		X		X	X	X	X	X	X	X	X	X	X	X						* Run Dup on Outfall B
Outfall B	02-23	1350	1, 2, 4	Water	20			X	X	X	X	X	X	X	X	X	X			X					** Run Ms, Msd, Dup, TB on Outfall B

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Special Instructions/QC Requirements & Comments:

Received by: Lawrence Spangler	Company: Test America Portland	Date/Time: 02-23-10 1350	IN LAB:	Company: Test America Portland	Date/Time: 02-23-10 0900
Sampled By: Lawrence Spangler					Temperature Upon Receipt: 2.4°C 1.4°C

Certain B, BSP
Air
Hexane

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PTB0081 Date/Time Received: 02-24-10 / 0900

Client Name and Project: CERTAIN

Time Zone:
☐EDT/EST ☐CDT/CST ☐MDT/MST ☒PDT/PST ☐AK ☐OTHER

Unpacking Checks:

Cooler #(s): 1 1 ____ ____ ____

Temperatures: 2.4°C 1.9 ____ ____ ____

Digi #1 ☐ Digi #2 ☐ IR Gun ☒ (☒Plastic ☐Glass)

Temperature out of Range:

__Not enough or No Ice
__Ice Melted
__W/in 4 Hrs of collection
__Other:____

Initials: ____

N/A	Yes	No	
☒	☐	☐	1. If ESI client, were temp blanks received? If no, document on NOD.
☒	☐	☐	2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
	☒	☐	3. Chain of Custody present? If no, document on NOD.
	☒	☐	4. Bottles received intact? If no, document on NOD.
	☒	☐	5. Sample is not multiphasic? If no, document on NOD.
	☒	☐	6. Proper Container and preservatives used? If no, document on NOD.
☐	☒	☐	7. pH of all samples checked and meet requirements? If no, document on NOD.
☒	☐	☐	8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
☒	☐	☐	9. HF Dilution required?
	☒	☐	10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.
	☐	☒	11. Did chain of custody agree with samples received? If no, document on NOD. TIMES REVERSED JM
	☒	☐	12. Is the "Sampled by" section of the COC completed?
☐	☒	☐	13. Were VOA/Oil Syringe samples without headspace?
☐	☒	☐	14. Were VOA vials preserved? ☒HCl ☐Sodium Thiosulfate ☐Ascorbic Acid
	☐	☒	15. Did samples require preservation with sodium thiosulfate?
☒	☐	☐	16. If yes to #15, was the residual chlorine test negative? If no, document on NOD.
☒	☐	☐	17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
☒	☒	☐	18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding.
☒	☐	☐	19. Are analyses with short holding times received in hold?
	☒	☐	20. Was Standard Turn Around (TAT) requested?
	☒	☐	21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM.

TB NOT ON COC JM

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Sample Receiving Checklist

Work Order #: PTB0681

Login Checks:

Initials: JM

N/A	Yes	No	
	☑	☐	22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM.
☑	☐	☐	23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM.
	☑	☐	24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times?
☐	☑	☐	25. Were special log in instructions read and followed?
	☑	☐	26. Were tests logged checked against the COC?
☑	☐	☐	27. Were rush notices printed and delivered?
☑	☐	☐	28. Were short hold notices printed and delivered?
☑	☐	☐	29. Were subcontract COCs printed?
☑	☐	☐	30. Was HF dilution logged?

Labeling and Storage Checks:

Initials: JM

N/A	Yes	No	
☑	☐	☐	31. Were the subcontracted samples/containers put in Sx fridge?
☑	☐	☐	32. Were sample bottles and COC double checked for dissolved/filtered metals?
	☑	☐	33. Did the sample ID, Date, and Time from label match what was logged?
☑	☐	☐	34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge?
☑	☐	☐	35. Were HF stickers affixed to each container, and containers stored in Sx fridge?
☐	☑	☐	36. Was an NOD for created for noted discrepancies and placed in folder?

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sampling Documentation Form

Client: Certain Teed Roofing Products Group
Site: Outfall A, CB1
Project: Stormwater Monitoring

Sampler: Lawrence Spangler
Date: 02-23-10
Time: 1305

Sample Matrix: Water

Sampling Method: Grab

Grab Sampling Equipment: Into Bottle and Dipper
Outfall A Time: 1320
Outfall B Time: 1350

Field Data:
pH Meter: Orion 3 Star
pH: Outfall A 7.27 Time Taken: 1325
pH: Outfall B 6.99 Time Taken: 1355
pH calibration-7.00 buffer reading: 2.04
pH calibration slope: 101
pH 4 Buffer: 9090085
pH 7 Buffer: 9090084
pH 10 Buffer: 9090087

Field Conditions:
Weather: □ Sunny □ Partly cloudy ☒ Cloudy □ Snowing
Rainfall: □ Heavy ☒ Continuous □ Intermittent □ Light □ None

Sample Characteristics:
Color: Tan Odor: _____ TSS: _____
Sediment: _____ Foam: _____ Clear: _____

Observations and Comments:
took 1 1/2 hours for rain to start flow. Areas were clear and samples were a brown tanish ~~color~~ flow. It rained for about 16 hours. There was no Rainfall for almost 3 days prior to sampling.